



Engineering Staff College of India

An Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachi Bowli, Hyderabad-500 032

(IMS [ISO 9001:2015, ISO 14001:2015, ISO 50001:2018, ISO 45001:2018],
ISO/IEC 17025:2017 Certified, AICTE & CEA Recognized Institution)



CIVIL & TRANSPORTATION ENGINEERING DIVISION

Training and Development Programme On

Traffic Systems Modelling and Simulation

04th – 08th December, 2023

Venue : ESCI / Assam



Centre for Promotion of Professional Excellence

INTRODUCTION:

In India and across the world have witnessed alarming traffic growths in the past few decades leading to the most critical problem of Traffic congestion. Given the influence of road transportation on the nation's development, especially in developing nations like India, the rise in congestion has propagated several detrimental effects such as low economic growth, inefficient mobility, high accident rates, and serious health and environmental related problems. So that traffic congestion has become the major concern for road transportation planners and operator.

It is also now widely accepted in different transportation-related stakeholder circles that increasing roadway capacity is not a viable solution to the congestion problem, both from feasibility as well as economic standpoints. Hence, other way to address the congestion problem is to improve the utilization of the existing systems through better traffic management and operations. It is also believed all across the world that operational management is the second-most effective strategy for containing congestion, only next to public transportation. Efficient modelling of vehicular traffic remains a largely debated issue especially in context of Indian heterogeneous driving conditions. **VISSIM** is microscopic traffic simulation software that is gaining increasing recognition in India.

OBJECTIVES:

- To familiarize participants with "Traffic System Modelling and Simulation".
- To impart knowledge on Analytical and simulation Models.
- To know about importance of Traffic Management & Operations
- To Know about Traffic Simulation
- To describe various Tools used in Traffic simulation

COURSE COVERAGE :

- Overview of Traffic System Modelling and Simulation
- Concept of Traffic system Modelling & its Characterization, Analytical and simulation Models
- Traffic Modelling approaches & Modelling aspects of driving behaviour
- Importance of Utilizing the existing Road Networks through better Traffic Management & Operations
- Fundamentals of Traffic Simulation
- Tools used in Traffic simulation
- Traffic Simulation Model Classification & its Applications
- Simulation of Uninterrupted Traffic flow , Signalized & UnSignalized Intersection Traffic Flow facilities in VISSIM tool
- Technical Filed visit
- Group discussions, Presentation of Case Studies by Participants

BENEFITS TO THE PARTICIPANTS:

- Participants are benefited from Simulation of Uninterrupted Traffic flow , Signalized & UnSignalized Intersection Traffic Flow facilities in VISSIM tool
- Participants are benefited through better understanding on Importance of Utilizing the existing Road Networks through better Traffic Management & Operations
- Participants will understand Traffic Simulation Model Classification & its Applications
- Case studies are discussed during the training period

TARGET PARTICIPANTS:

Officers and Engineers from Government departments like Transportation Departments, Roads and Buildings, PWD, Municipal Corporations, Panchayat Raj, Housing Boards, Border Roads organization, Public and Private sector like RITES, organizations involved in Traffic Engineering, Professionals and Consultants etc., working at junior level to senior level will all be benefited by attending this program.

RESOURCE PERSONS:

Renowned personalities both from Industry / Educational Institutions like IIT's/ NIT's / Research Institutes, Reputed Universities, who are experts in this field, will be involved in providing the training.

PROGRAMME VENUE, DATES &TIMINGS:

VENUE : **Engineering Staff College of India (ESCI)** Campus, Old Bombay Road, Gachi Bowli, Hyderabad- 500 032. / **Assam**

Note :-

1. If Venue at **ESCI Campus Hyderabad**, No of Participants from your organization is as per your Choice.
2. If Venue at **Assam**, No of Participants: **25 No's (Minimum) from your organization.**

DATES : **04th to 08th December, 2023**

Registration : 09:45hrs.

Session timings : 09:45 – 17:15 hrs with 3 times breaks.

COURSE DIRECTOR:

Dr. R Venkat Reddy, Ph.D (Osmania), FIE
Head

COURSE COORDINATOR:

Ch. Tilak – Faculty

COURSE FEES:

Rs.25,000/- (Rupees Twenty Five Thousand Only) + GST 18% per participant. Fee includes, Soft copy of course material, course kit and Twin Sharing AC accommodation, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of training programme.

DISCOUNTS

- ❖ **Non-Residential Fee-** 10% discount on course fee is allowed for non-residential participants.
- ❖ **Group Discount:** Additional 10% discount for three or more participants, if sponsored by the same organization.

GST 18% is to be paid extra over and above the training fee, as training is also brought under the purview of **Service Tax. PAN Card No AAATT3439Q; Service Tax registration No AAATT3439QST008 (under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994). GSTN Number – 36AAATT3439Q1ZV (HSN Number – 999293)**

Programme fee is to be paid in favor of “**IE (I) – Engineering Staff College of India**” in the form of demand draft payable at Hyderabad.

Alternatively the payment may be made by **Electronic Fund Transfer (EFT) to ESCI - SB A/c No. 10007111201 with The SBI, PBB, Rajbhavan Road Branch, Khairatabad, Hyderabad-500004 by NEFT / RTGS / IFSC Code No. SBIN 0004159 – MICR No.500002075**. While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.

REGISTRATION:

Please send your nominations

To
The Head
Civil & Transportation Engineering Division
Engineering Staff College of India
Old Bombay Road, Gachi Bowli, Hyderabad - 500 032
Mobile : **9490011311 / 9492011311**
Phone: 040-6630 4114, 66304134, 66304115, 66304107
Email : **cte@escihyd.org**

CERTIFICATE:

A certificate of participation will be awarded to each participant.

GENERAL INSTRUCTIONS

- ESCI encourages participants to present case studies from their respective organizations.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200hrs) and one day after conclusion (Check-out 1100hrs) of the program duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation).